

Section 5: Ambient Air Quality Monitoring

5.1 Attainment of the 1-Hour Ozone Standard

The monitoring sites⁴ in the New Orleans Ozone Maintenance Area have operated in accordance with the requirements of 40 CFR 58 and the EPA-approved Quality Assurance Program Plan. The NAAQS for 1-hour ozone is 120 parts per billion (ppb) based on a 1-hour average sample. Because of rounding, a 1-hour monitor reading of 125 ppb is considered an exceedance of the 1-hour ozone standard, whereas a reading of 124 ppb is considered as meeting the standard.

For the 3-year period of 2003, 2004 and 2005, the New Orleans Maintenance Area network monitored attainment with the 1-hour ozone NAAQS through the end of calendar year 2005. The design value for the New Orleans Maintenance Area was 101 ppb; Jefferson Parish was 101 ppb; Orleans Parish was 86 ppb; St. Bernard Parish was 101 ppb; and St. Charles Parish was 101 ppb. EPA revoked the 1-hour ozone standard effective June 15, 2005.

5.2 Attainment of the 8-Hour Ozone Standard

The NAAQS for 8-hour ozone is 80 ppb based on the three-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area. An 8-hour monitor reading of 85 ppb is considered an exceedance of the 8-hour ozone standard and a reading of 84 ppb is considered as meeting the standard. Figures 2a-2e (pages 14-16) illustrate the trend in 8-hour ozone design values in ppb for the New Orleans Maintenance Area sites from 1998 through 2005.

⁴ Jefferson Parish #22-051-1001; Orleans Parish #22-071-0012; St. Bernard Parish #22-087-0002; and St. Charles Parish #22-089-0003 (data retrieved from US EPA AQS)

Figure 2a

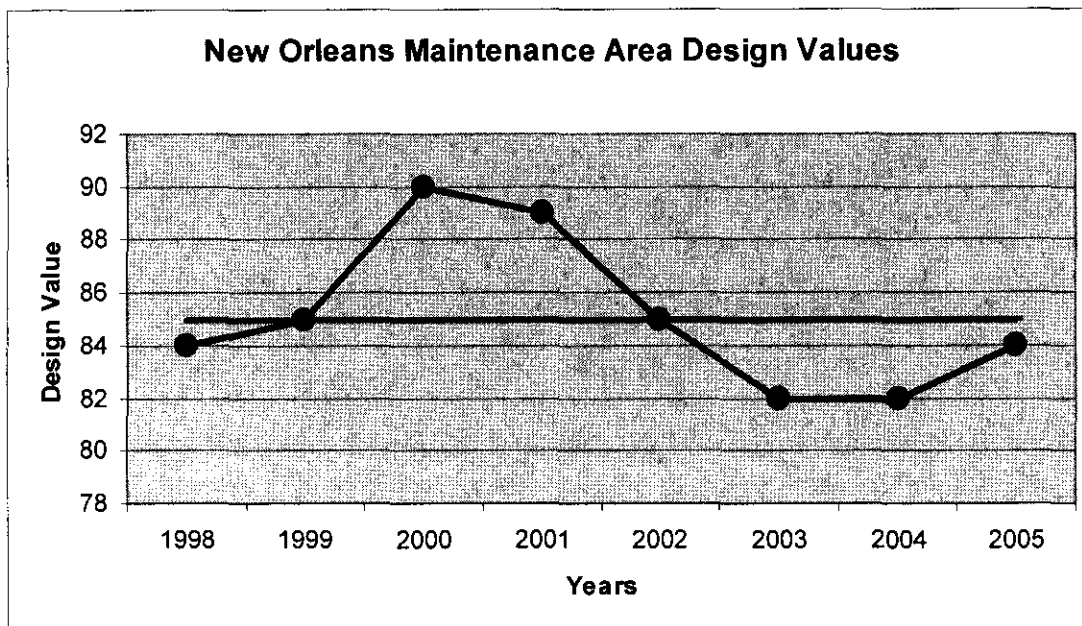


Figure 2b

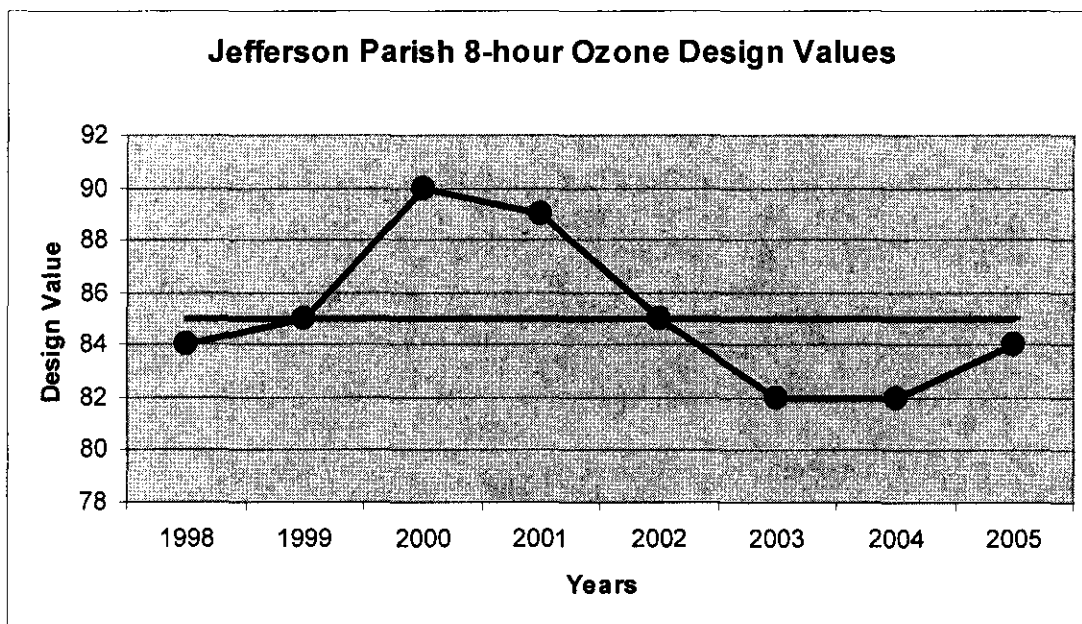


Figure 2c

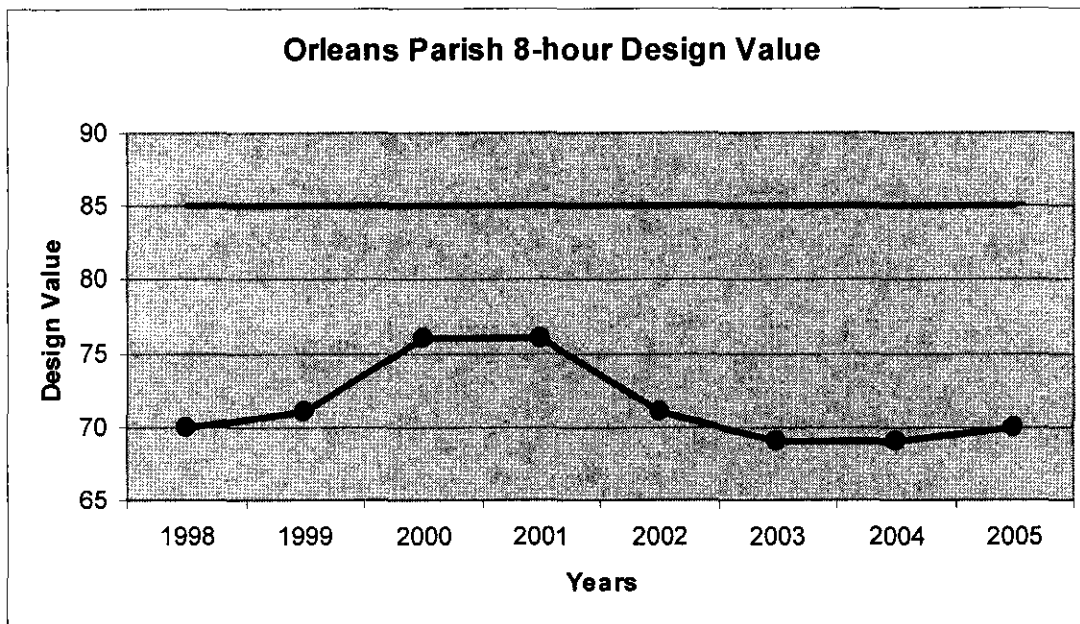


Figure 2d

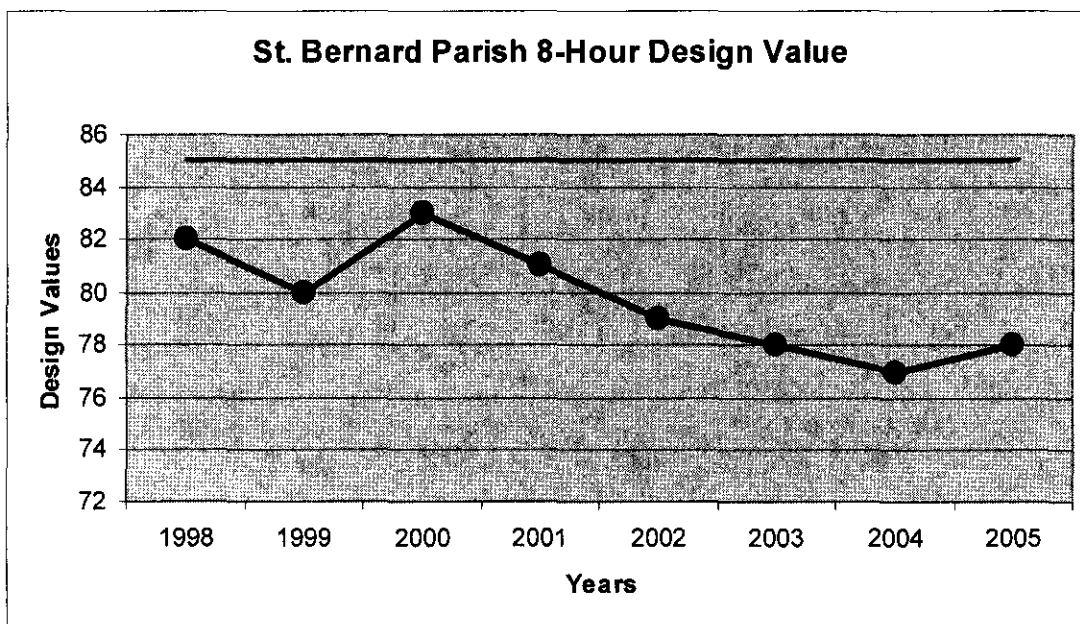
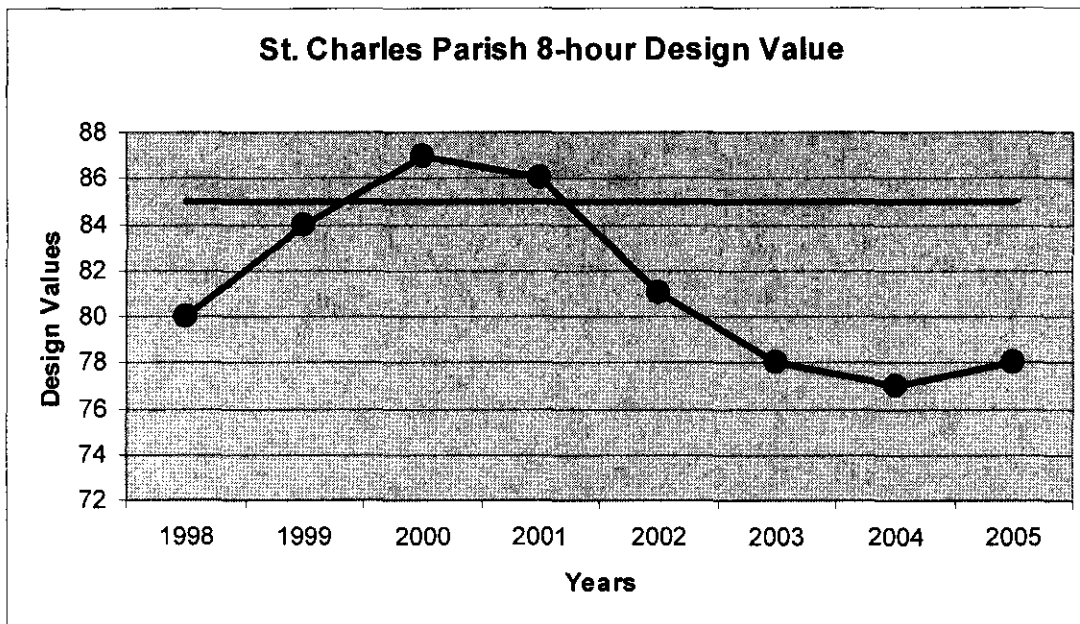


Figure 2e



Tables 5-1 through 5-4 indicate that the Orleans Parish and St. Bernard Parish ozone monitors have monitored attainment for the latest six complete three-year periods, the St. Charles Parish ozone monitor has monitored attainment for the latest four complete three-year periods, and the Jefferson Parish ozone monitor has monitored attainment for the latest three complete three-year periods.

**Table 5-1: Jefferson Parish
8-Hour Ozone Design Values 1998-2005**

Year	1st	2nd	3rd	4th	# of days > 84 ppb	Design Value (ppb)
1998	102	97	90	89	4	84
1999	97	93	90	88	10	85
2000	100	98	96	95	11	90
1999	97	93	90	88	10	85
2000	100	98	96	95	11	90
2001	94	93	87	84	3	89
2000	100	98	96	95	11	90
2001	94	93	87	84	3	89
2002	85	84	77	76	1	85
2001	94	93	87	84	3	89
2002	85	84	77	76	1	85
2003	102	93	89	88	6	82
2002	85	84	77	76	1	85
2003	102	93	89	88	6	82
2004	92	90	84	83	2	82
2003	102	93	89	88	6	82
2004	92	90	84	83	2	82
2005	86	84	84	83	1	84

**Table 5-2: Orleans Parish
8-Hour Ozone Design Values 1998-2005**

Year	1st	2nd	3rd	4th	# of days > 84 ppb	Design Value (ppb)
1998	78	73	72	71	0	70
1999	80	79	78	78	0	71
2000	84	84	82	81	0	76
1999	80	79	78	78	0	71
2000	84	84	82	81	0	76
2001	77	73	71	69	0	76
2000	84	84	82	81	0	76
2001	77	73	71	69	0	76
2002	74	68	65	65	0	71
2001	77	73	71	69	0	76
2002	74	68	65	65	0	71
2003	83	75	75	74	0	69
2002	74	68	65	65	0	71
2003	83	75	75	74	0	69
2004	75	75	69	69	0	69
2003	83	75	75	74	0	69
2004	75	75	69	69	0	69
2005	81	70	70	68	0	70

**Table 5-3: St. Bernard Parish
8-Hour Ozone Design Values 1998-2005**

Year	1st	2nd	3rd	4th	# of days > 84 ppb	Design Value (ppb)
1998	103	86	85	82	3	82
1999	90	89	87	83	3	80
2000	91	87	86	86	4	83
1999	90	89	87	83	3	80
2000	91	87	86	86	4	83
2001	84	79	76	76	0	81
2000	91	87	86	86	4	83
2001	84	79	76	76	0	81
2002	94	76	76	75	1	79
2001	84	79	76	76	0	81
2002	94	76	76	75	1	79
2003	103	90	90	83	3	78
2002	94	76	76	75	1	79
2003	103	90	90	83	3	78
2004	94	80	80	74	1	77
2003	103	90	90	83	3	78
2004	94	80	80	74	1	77
2005	89	81	79	79	1	78

**Table 5-4: St. Charles Parish
8-Hour Ozone Design Values 1998-2005**

Year	1st	2nd	3rd	4th	# of days > 84 ppb	Design Value (ppb)
1998	93	88	86	84	3	80
1999	90	88	87	85	4	84
2000	107	105	104	94	8	87
1999	90	88	87	85	4	84
2000	107	105	104	94	8	87
2001	88	84	84	79	1	86
2000	107	105	104	94	8	87
2001	88	84	84	79	1	86
2002	84	81	75	71	0	81
2001	88	84	84	79	1	86
2002	84	81	75	71	0	81
2003	96	87	84	84	2	78
2002	84	81	75	71	0	81
2003	96	87	84	84	2	78
2004	90	85	83	76	2	77
2003	96	87	84	84	2	78
2004	90	85	83	76	2	77
2005	81	80	79	76	0	78